#### **TENT COOPERATION TREATY**

**PCT** 

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9803 PCT		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/IL 99/00448	19/08/1999	21/08/1998			
Applicant		·			
YEDA RESEARCH AND DEVELOP	MENT CO. LTD. et al.				
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this international Searching Autanamitted to the international Bureau.	thority and is transmitted to the applicant			
This international Search Report consists  X It is also accompanied by	of a total of5sheets. a copy of each prior art document cited in this	s report.			
1. Basis of the report					
<ul> <li>a. With regard to the language, the language in which it was filed, unit</li> </ul>	international search was carried out on the ba less otherwise indicated under this item.	als of the International application in the			
Authority (Rule 23.1(b)).	as carried out on the basis of a translation of				
was carried out on the basis of the	e sequence listing :	nternational application, the international search			
l L.J	contained in the international application in written form.  filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.  [X] furnished subsequently to this Authority in computer readble form.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
<u></u>		is identical to the written sequence listing has been			
2. X Certain claims were fou	nd unsearchable (See Box I).				
3. Unity of invention is lacking (see Box II).					
4. With regard to the title,					
the text is approved as su	ibmitted by the applicant.				
the text has been establis	hed by this Authority to read as follows:				
5. With regard to the abstract,	•				
The text is approved as su	ibmlitted by the applicant.				
the text has been establis		rity as it appears in Box III. The applicant may, sport, submit comments to this Authority.			
6. The figure of th drawings to be publ	ished with the abstract is Figure N .				
as suggested by the appli	lcant.	X Non of the figures.			
because the applicant fail	ed to suggest a figure.				
because this figure better	characterizes the invention.				



emational application No.

PCT/IL 99/00448

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claim 18 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: 1-5,7,9,13 because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
$\cdot$
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark n Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

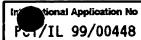
Claims Nos.: 1-5,7,9,13

Present claims 1-3 and 13 relate to a product defined by reference to a desirable property, namely an anti-inflammatory activity. The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

In addition, present claims 4,5,7,9 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds (pepl) to (pep46) and closely related analogues.

Therefore, claims 6,8,10-12 were searched completely; claims 14-18 only as far as concerning the searched subject-matter.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



IPC 7	FICATION OF SUBJECT MATTER C07K14/55 A61K38/20 C07K5/	08 C07K5/10	
According to	International Patent Classification (IPC) or to both national class	ification and IPC	
	SEARCHED		
Minimum do IPC 7	cumentation searched (classification system followed by classific CO7K A61K	cation symbols)	
Documentat	ion searched other than minimum documentation to the extent the	at such documents are included in the fields s	earched .
Electronic d	ata base consulted during the international search (name of data	base and, where practical, search terms used	ı)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to dalm No.
P,X	ARIEL, AMIRAM ET AL: "IL-2 ind adherence to extracellular matrinhibition of adherence and mig IL-2 peptides generated by leuk elastase"  J. IMMUNOL. (1998), 161(5), 2461 September 1998 (1998-09-01), the whole document  WO 95 00538 A (PEPTECH UK LTD;	rix: gration by cocyte 55-2472, XP002133613	1-18
	VADIM TIKHONOVICH (RU); MIKHALE IV) 5 January 1995 (1995–01–05) the whole document 	VA INESSA -/	
X Furt	ner documents are listed in the continuation of box C.	χ Patent family members are listed	i in annex.
"T" later document published after the International filing date or priority date and not in conflict with the application but ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the invention filing date.  "E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but ched to understand the principle or theory underlying the invention.  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone which is cited to establish the publication date of another chartles or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published after the international filing date but later than the priority date and not in conflict with the application but ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the principle or theory underlying the ched to understand the princi			
	actual completion of the International search  1 March 2000	Date of mailing of the International se	auni ichar
Name and r	naling address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-3016  Fax: (+31-70) 340-3016	Authorized officer  Cervigni, S	

ŧ		Per/IL	99/00448
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to dalm No.
A	SUZUKI, KAZUO ET AL: "Localization of chemotactic activity and 64 kD protein phosphorylation fo human polymorphonuclear leukocytes in N-terminus of the chemotactic protein LUCT/IL-8" BIOCHEM. BIOPHYS. RES. COMMUN. (1989), 163(3), 1298-305, 1989, XP002133614 abstract		
A	DATABASE WPI Section Ch, Week 199136 Derwent Publications Ltd., London, GB; Class B04, AN 1991-262316 XP002133615 & JP 03 170498 A (TEIKOKU HORMONE MFG CO LTD), 24 July 1991 (1991-07-24) abstract		
			·

information on patent family members

including in the property of t

Patent document	1	101/1	. 99/00448
cited in search report	Publication date	Patent family member(s)	Publication date
WO 9500538 A	05-01-1995	AU 6977994 A ZA 9404483 A	17-01-1995 22-12-1995
JP 3170498 A	24-07-1991	NONE	
	WO 9500538 A	W0 9500538 A 05-01-1995	Patent document cited in search report Publication date Patent family member(s)  W0 9500538 A 05-01-1995 AU 6977994 A ZA 9404483 A

Form PCT/ISA/210 (patent family annex) (July 1992)



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report		
9803 PCT	ACTION (FORM PC 1715AV.	220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/IL 99/00448	19/08/1999	21/08/1998		
Applicant				
YEDA RESEARCH AND DEVELOP	MENT CO. LTD. et al.			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Autansmitted to the International Bureau.	thority and is transmitted to the applicant		
This International Search Report consists  X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	s report.		
1. Basis of the report				
	international search was carried out on the ba ess otherwise indicated under this item.	isis or the international application in the		
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this		
was carried out on the basis of the contained in the internation	e sequence listing : onal application in written form.	nternational application, the international search		
filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.    X   furnished subsequently to this Authority in computer readble form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		is identical to the written sequence listing has been		
2. X Certain claims were fou	nd unsearchable (See Box I).			
3. Unity of invention is lac	king (see Box II).			
4. With regard to the title,				
X the text is approved as su	bmitted by the applicant.			
the text has been establis	hed by this Authority to read as follows:			
5. With regard to the abstract,				
X the text is approved as su	·			
	hed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. The figure of the drawings to be publ	ished with the abstract is Figure No.			
as suggested by the appli	cant.	X None of the figures.		
because the applicant fail				
because this figure better	characterizes the invention.			



iternational application No.

PCT/IL 99/00448

B x I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Remark: Although claim 18 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: 1-5,7,9,13 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
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2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-5,7,9,13

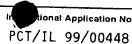
Present claims 1-3 and 13 relate to a product defined by reference to a desirable property, namely an anti-inflammatory activity. The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

In addition, present claims 4,5,7,9 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely related analogues.

Therefore, claims 6.8.10-12 were searched completely; claims 14-18 only as far as concerning the searched subject-matter.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





CLASSIFICATION OF SUBJECT MATTER A. CLAS C07K14/55 A61K38/20 C07K5/08 C07K5/10 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,X ARIEL, AMIRAM ET AL: "IL-2 induces T cell 1 - 18adherence to extracellular matrix: inhibition of adherence and migration by IL-2 peptides generated by leukocyte elastase" J. IMMUNOL. (1998), 161(5), 2465-2472 1 September 1998 (1998-09-01), XP002133613 the whole document Α WO 95 00538 A (PEPTECH UK LTD ; IVANOV VADIM TIKHONOVÍCH (RU); MIKHALÉVA INESSA IV) 5 January 1995 (1995-01-05) the whole document -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 21 March 2000 05/04/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Cervigni, S





		PCT/IL 9	PCT/IL 99/00448		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<del>-1 </del>			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
A	SUZUKI, KAZUO ET AL: "Localization of chemotactic activity and 64 kD protein phosphorylation fo human polymorphonuclear leukocytes in N-terminus of the chemotactic protein LUCT/IL-8" BIOCHEM. BIOPHYS. RES. COMMUN. (1989), 163(3), 1298-305, 1989, XP002133614 abstract				
A	DATABASE WPI Section Ch, Week 199136 Derwent Publications Ltd., London, GB; Class B04, AN 1991-262316 XP002133615 & JP 03 170498 A (TEIKOKU HORMONE MFG COLTD), 24 July 1991 (1991-07-24) abstract				
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nformation on patent family members

In Jonal Application No
PCT/IL 99/00448

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9500538	Α	05-01-1995	AU 6977994 A ZA 9404483 A	17-01-1995 22-12-1995
JP 3170498	- <b></b> -	24-07-1991	NONE	

# PAIENT COOPERATION TREAT.

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 12 April 2000 (12.04.00)	in its capacity as elected Office
International application No. PCT/IL99/00448	Applicant's or agent's file reference 9803 PCT
International filing date (day/month/year) 19 August 1999 (19.08.99)	Priority date (day/month/year) 21 August 1998 (21.08.98)
Applicant LIDER, Ofer et al	
in a notice effecting later election filed with the Interest of the Interest o	eary Examining Authority on:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland	Authorized officer Olivia RANAIVOJAONA

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



Set Name side by side	Query		Hit Count	Set Name result set
DB=DW	PI; PLUR=YE	S; OP=ADJ		
<u>L10</u>	derived peptide	e? and L9	2	<u>L10</u>
<u>L9</u>	(interleukin 2 d	or il 2 or il-2)	1508	<u>L9</u>
DB=PG	PB; PLUR=YE	S; OP=ADJ		
<u>L8</u>	derived peptide	e? and L7	2	<u>L8</u>
<u>L7</u>	(interleukin, 2 c	or il 2 or il-2).ab.	46	<u>L7</u>
DB = USI	PT; PLUR=YES	S; OP=ADJ		
<u>L6</u>	derived peptide	e? and L5	2	<u>L6</u>
<u>L5</u>	(interleukin 2 d	or il 2 or il-2).ab.	338	<u>L5</u>
DB = USI	PT,PGPB; PLU	VR = YES; OP = ADJ		
<u>L4</u>	derived peptide	e? and L3	4	<u>L4</u>
<u>L3</u>	(interleukin 2 d	or il 2 or il-2).ab.	384	<u>L3</u>
DB = USI	PT; PLUR=YES	S; OP = ADJ		
<u>L2</u>	derived peptide	e? and L1	280	<u>L2</u>
<u>L1</u>	(interleukin 2 d	or il 2 or il-2)	9347	<u>L1</u>

END OF SEARCH HISTORY

,	FAOM Checklist
	Appl. Ser. No. 09   63,395
5	date EFD 08/19/99. via . P.CT. 1. IL 95/. 60448
	Briefed
10	Form 948 present? NO
	Declaration (06-05)  PCT referred to?  priority dates OK?
15	continuing dates OK? CIP duty? (06-05-09)
	Meets conditions for priority (02-09)
20	Sequences in compliance?
	Restriction/Election?
	Priority Docs present?
25	File wrapper labeled OK and initialed?
	Title (06-11)
30	Abstract (06-12 missing) (06-13 informs) (06-14,15 content)
	Figures (06-22)
35	Brief Description.
	Amendments?
40	IDS checked
	Seq Srch requested
	Copies of refs requested
45	07-29. 06-31?

07-34

#### **PCT**

# WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



CO7K 14/55, A61K 38/20, CO7K 5/08,  5/10  A3  (43) International Publication Number: WO 00/110  2 March 2000 (02.03.  (43) International Publication Date: 2 March 2000 (02.03.  (43) International Publication Date: 2 March 2000 (02.03.  (44) International Publication Date: 2 March 2000 (02.03.  (45) International Filing Date: 19 August 1999 (19.08.99)  (46) Priority Data: 9818370.0 21 August 1998 (21.08.98) GB 126009 31 August 1998 (31.08.98) IL 129980 16 May 1999 (16.05.99) IL 129980 17 May 1999 (16.05.99) IL 129980 18 May 1999 (16.05.99) IL 129980 19 May 1999 (16.05.99) IL 129980 16 May	INTERNATIONAL APPLICATION DUBLIS	intern:	ational Bureau	
CO7K 14/55, A61K 38/20, CO7K 5/08,  5/10  A3  (43) International Publication Number: 2 March 2000 (02.03.  (43) International Publication Date: 2 March 2000 (02.03.  (44) International Publication Date: 2 March 2000 (02.03.  (55) International Application Number: PCT/IL99/00448  (56) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, IBR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, IBR, BY, CA, CH, CN, CR, CR, CR, CR, CR, CR, CR, CR, CR, CR		HED (	JNDER THE PATENT COOPERATI	ON TREATY (PCT)
22) International Application Number: PCT/IL99/00448 22) International Filing Date: 19 August 1999 (19.08.99) 22) International Filing Date: 19 August 1999 (19.08.99) 23) August 1998 (21.08.98) GB 126009 31 August 1998 (21.08.98) IL 129980 16 May 1999 (16.05.99) IL 16 May 1999 (16.05.99) IL 16 May 1999 (16.05.99) IL 17 Applicant (for all designated States except US): YEDA RESEARCH AND DEVELOPMENT CO. LTD. [IL/IL]; Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL). 23) Inventors; and 51 Inventors; Applicants (for US only): LIDER, Ofer [IL/IL]; Shikun Banim 119, 76965 Kfar Bilu Bet (IL). ARIEL, Amiram [IL/IL]; Hagalil Street 11, 76601 Rehovot (IL). HERSHKOVIZ, Rami [IL/IL]; A Habaal Shem Tov, 4632 Herzliya (IL), YAVIN, Eran, J. [IL/IL]; Moskovich Street 41, 76468 Rehovot (IL). FIIDKIN, Matityahu [IL/IL]; Miller Street 23, 76284 Rehovot (IL).  Apent: BEN-AMI, Paulina; Yeda Research and Development Co. Ltd., Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).  Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Abstract  Sel, GR, GR, GR, AL, AM, AT, AU, AZ, BA, BB, II BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DR, DM, DM, DM, DM, DM, DM, DM, DM, DM, DM	C07K 14/55, A61K 38/20, C07K 5/09	A3		WO 00/110
22) International Filing Date: 19 August 1999 (19.08.99) 30) Priority Data: 9818370.0 21 August 1998 (21.08.98) GB 126009 31 August 1998 (31.08.98) IL 129980 16 May 1999 (16.05.99) 11. Applicant (for all designated States except US): YEDA RESEARCH AND DEVELOPMENT CO. LTD. [IL/IL.]; Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL.)  21 Inventors; and 55 Inventors/Applicants (for US only): LIDER, Ofer [IL/IL.]; Shikun Banim 119, 76965 Kfar Bilu Bet (IL.) ARIEL, Amiram [IL/IL.]; 4 Habaal Shem Tov, 46342 Herzliya (IL.) YAVIN, Eran, J. [IL/IL.]; Moskovich Street 41, 76468 Rehovot (IL.). FIDKIN, Matityahu [IL/IL.]; Miller Street 23, 76284 Rehovot (IL.).  Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Abstract  (67) Potentian states: AE, AL, AM, AT, AU, AZ, BA, BB, IB BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, IN, IN, IS, SR, SR, IB, IT, BR, GB, GR, GH, GH, CH, LIN, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UN, YU, ZA, ZW, ARIPO patent (AH, AZ, BY, KY, CL, CLK, LR, LS, LT, LU, LV, W, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UN, YU, ZA, ZW, ARIPO patent (AH, AZ, BY, KY, CL, LK, LR, LS, LT, LU, LV, W, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UN, YU, ZA, ZW, ARIPO patent (AH, AZ, BY, KY, MD, RU, TJ, TM), European patent (AT, AZ, BX, KY, SL, TJ, LU, LV, WG, KE, KG, KP, KR, LC, LK, LR, LS, LT, LU, LV, WG, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, WG, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, WG, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, WG, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, WG, KE, KG, KP, KR, KZ, LC, LK, KE, LT, LU, LV, MG, KE, KG, KP, KR, KZ, LC, LK, KE, KG, KP, KR, KZ, LC, LK, KE, KG, KP, KR, KZ, LC, LK, KE, KG, KP, KR, KY, LT, LT, LU, LV, MG, KE, FI, CR, KE,	(21) International Application Number:	20		2 March 2000 (02.03.0
Shikun Banim 119, 76965 Kfar Bilu Bet (IL). ARIEL, Amiram [IL/IL]; Hagalil Street 11, 76601 Rehovot (IL). HERSHKOVIZ, Rami [IL/IL]; 4 Habaal Shem Tov, 46342 Herzliya (IL). YAVIN, Eran, J. [IL/IL]; Moskovich Street 41, 76468 Rehovot (IL). FRIDKIN, Matityahu [IL/IL]; Miller Street 23, 76284 Rehovot (IL).  Agent: BEN-AMI, Paulina; Yeda Research and Development Co. Ltd., Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).  Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Synthetic anti-inflammatory peptides derived from the sequence of II-2 are provided. Does not be a provided and the provided of the international search report.  (88) Date of publication of the international search report.  (88) Date of publication of the international search report.  (88) Date of publication of the international search report.	(22) International Filing Date: 19 August 1999 (1)  (30) Priority Data: 9818370.0 21 August 1998 (21.08.98) 126009 31 August 1998 (31.08.98) 129980 16 May 1999 (16.05.99)  71) Applicant (for all designated States except US): YEI SEARCH AND DEVELOPMENT CO. LTD. [IL/IL] mann Institute of Science, P.O. Box 95, 76100 Rehov	19.08.99 GE IL IL DA RE-	BR, BY, CA, CH, CN, CR, C ES, FI, GB, GD, GE, GH, GM, KE, KG, KP, KR, KZ, LC, LK, MG, MK, MN, MW, MX, NO, SE, SG, SI, SK, SL, TJ, TM, T VN, YU, ZA, ZW, ARIPO pater SD, SL, SZ, UG, ZW), Eurasian KZ, MD, RU, TJ, TM), Europea DE, DK, ES, FI, FR, GB, GR, SE), OAPI patent (BF, BJ, CF, C ML, MR, NE, SN, TD, TG).	U, CZ, DE, DK, DM, E HR, HU, ID, IL, IN, IS, J LR, LS, LT, LU, LV, M NZ, PL, PT, RO, RU, S. FR, TT, UA, UG, US, U patent (AM, AZ, BY, KO patent (AT, BE, CH, CY
Amiram [IL/IL]; Hagalil Street 11, 76601 Rehovot (IL).  HERSHKOVIZ, Rami [IL/IL]; 4 Habaal Shem Tov, 46342 Herzliya (IL). YAVIN, Eran, J. [IL/IL]; Moskovich Street 41, 76468 Rehovot (IL). FRIDKIN, Matityahu [IL/IL]; Miller Street 23, 76284 Rehovot (IL).  Agent: BEN-AMI, Paulina; Yeda Research and Development Co. Ltd., Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).  Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Synthetic anti-inflammatory peptides derived from the sequence of IL-2 are provided. Dec. 2 are provided. Dec. 2 are provided.	72) Inventors; and			
Amiram [IL/IL]; Hagalil Street 11, 76601 Rehovot (IL).  HERSHKOVIZ, Rami [IL/IL]; 4 Habaal Shem Tov, 46342 Herzliya (IL). YAVIN, Eran, J. [IL/IL]; Moskovich Street 41, 76468 Rehovot (IL). FRIDKIN, Matityahu [IL/IL]; Miller Street 23, 76284 Rehovot (IL).  Agent: BEN-AMI, Paulina; Yeda Research and Development Co. Ltd., Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).  Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Synthetic anti-inflammatory peptides derived from the sequence of IL-2 are provided. Dec. 2 are provided. Dec. 2 are provided.	Shikun Banim 110 7005 This LIDER, Ofer	[IL/IL]:	With international search report.	
Title: ANTI-INFLAMMATORY PEPTIDES DERIVED FROM IL-2 AND ANALOGUES THEREOF  Abstract  Synthetic anti-inflammatory peptides derived from the sequence of IL-2 are provided. Percentage of IL-2 are provided.	Amiram [IL/IL]; Hagalil Street 11, 76601 Rehove HERSHKOVIZ, Rami [IL/IL]; 4 Habaal Shem Tov, Herzliya (IL). YAVIN, Eran, J. [IL/IL]; Moskovich 41, 76468 Rehovot (IL). FRIDKIN, Matityahu [Miller Street 23, 76284 Rehovot (IL).	ARIEL, ot (IL). 46342 Street IL/IL];		nal search report: 6 July 2000 (06.07.00
Synthetic anti-inflammatory peptides derived from the sequence of II -2 are provided. Page 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17		opment ox 95,		
Synthetic anti-inflammatory peptides derived from the sequence of II -2 are provided. Page 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	_		•	
Synthetic anti-inflammatory peptides derived from the sequence of II -2 are provided. Page 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	Title: ANTI-INFLAMMATORY PERTIPES DEPRING			
and chronic inflammation such as in autoimmune diseases.	Synthetic anti-inflammatory peptides derived from the se	equence	Of II =2 are provided. Dec.	sequences Ile-Val-Leu,
	conditions of acute and ci	hronic i	iflammation such as in autoimmune diseases	IL-2, synthesized and s.
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Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL AM AT AU BA BB BE BF BG BJ BR CF CG CH CI CM CU CZ DE DK EE	Albania Armenia Austria Australia Australia Azerbaijan Bosnia and Herzegovina Barbados Belgium Burkina Faso Bulgaria Benin Brazil Belarus Canada Central African Republic Congo Switzerland Côte d'Ivoire Carneroon China Cuba Czech Republic Germany Denmark Estonia	ES FI FR GA GB GC GN GR HU IE IL IS IT JP KE KG KP LC LI LK LR	Spain Finland France Gabon United Kingdom Georgia Ghana Guinea Greece Hungary Ireland Israel Iceland Italy Japan Kenya Kyrgyzstan Democratic People's Republic of Korea Republic of Korea Kazakstan Saint Lucia Liechtenstein Sri Lanka Liberia	LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG	Lesotho Lithuania Luxembourg Latvia Monaco Republic of Moldova Madagascar The former Yugoslav Republic of Macedonia Mali Mongolia Mauritania Malawi Mexico Niger Netherlands Norway New Zealand Poland Portugal Romania Russian Federation Sudan Sudan Sweden Singapore	SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW	Slovenia Slovakia Senegal Swaziland Chad Togo Tajikistan Turkmenistan Turkey Trinidad and Tobago Ukraine Uganda United States of America Uzbekistan Viet Nam Yugoslavia Zimbabwe	Γ.
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n onal Application No PCT/IL 99/00448

A CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/55 A61 A61K38/20 C07K5/08 C07K5/10 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K A61K Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Bectronic data base consulted during the Imemational search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. P,X ARIEL, AMIRAM ET AL: "IL-2 induces T cell 1-18 adherence to extracellular matrix: inhibition of adherence and migration by IL-2 peptides generated by leukocyte elastase" J. IMMUNOL. (1998), 161(5), 2465-2472 1 September 1998 (1998-09-01), XP002133613 the whole document A WO 95 00538 A (PEPTECH UK LTD ; IVANOV VADIM TIKHONOVICH (RU); MIKHALEVA INESSA IV) 5 January 1995 (1995-01-05) the whole document -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other mean ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report. 21 March 2000 05/04/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijewijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Cervigni, S

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In ional Application No PCT/IL 99/00448

Contensation DOCUMENTS COMBINERED TO BE RELEVANT  Citispory* Citis			PCI/IL	99/00448
A SUZUKI, KAZUO ET AL: "Localization of chemotactic activity and 64 kD protein phosphorylation fo human polymorphonuclear leukocytes in N-terminus of the chemotactic protein LUCT/IL-8" BIOCHEM. BIOPHYS. RES. COMMUN. (1989), 163(3), 1298-305, 1989, XP002133614 abstract  A DATABASE WPI Section Ch, Week 199136 Derwent Publications Ltd., London, GB; Class B04, AN 1991-262316 XP002133615 & JP 03 170498 A (TEIKOKU HORMONE MFG CO LTD), 24 July 1991 (1991-07-24)	C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
chemotactic activity and 64 kD protein phosphorylation fo human polymorphonuclear leukocytes in N-terminus of the chemotactic protein LUCT/IL-8" BIOCHEM. BIOPHYS. RES. COMMUN. (1989), 163(3), 1298-305,1989, XP002133614 abstract  A DATABASE WPI Section Ch, Week 199136 Derwent Publications Ltd., London, GB; Class B04, AN 1991-262316 XP002133615 & JP 03 170498 A (TEIKOKU HORMONE MFG CO LTD), 24 July 1991 (1991-07-24)	Category *	Citation of document, with Indication,where appropriate, of the relevant passages	<del></del>	Relevant to claim No.
Section Ch, Week 199136 Derwent Publications Ltd., London, GB; Class B04, AN 1991-262316 XP002133615 & JP 03 170498 A (TEIKOKU HORMONE MFG CO LTD), 24 July 1991 (1991-07-24)	A	chemotactic activity and 64 kD protein phosphorylation fo human polymorphonuclear leukocytes in N-terminus of the chemotactic protein LUCT/IL-8" BIOCHEM. BIOPHYS. RES. COMMUN. (1989), 163(3), 1298-305, 1989, XP002133614		
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....amational application No.

PCT/IL 99/00448

Box I Observations where ce	rtain claims were found unsearchable (Continuation of item 1 of first sheet)
The international Search Report has	not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.:	
because they relate to subject	ct matter not required to be searched by this Authority, namely:
Weiner K. Wichondill	LIGHT IN 15 GIPACTAN to a make the contract of
human/ani	mal body, the search has been carried out and based
on the al	leged effects of the compound/composition.
	the compound/composition.
2. X Claims Nos.: 1-	5,7,9,13
because they relets to north a	of the but were a second as
an extent that no meaningful i	international Application that do not comply with the prescribed requirements to such
see FURTHER INFOR	MATION sheet PCT/ISA/210
Claims Nos.:	
because they are dependent of	taims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	and third someone of Hule 6.4(a).
ox II Observations where unity	of invention is lacking (Continuation of item 2 of first sheet)
The members of searching Authority fo	und multiple inventions in this international application, as follows:
As all required additional search	fees were timely paid by the applicant, this international Search Report covers all
Committee Committee	and the state of t
An all assets to	
As all searchable claims could be of any additional fee.	e searched without effort justifying an additional fee, this Authority did not invite payment
	на постине раупент
As only some of the required add	litional search fees were timely paid by the applicant, this international Search Report In fees were paid, specifically claims Nos :
covers only those claims for which	monal search fees were timely paid by the applicant, this international Search Report h fees were paid, specifically claims Nos.:
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No required additional agent for	Average May 1
restricted to the invention first mer	s were timely paid by the applicant. Consequently, this international Search Report is tioned in the claims; it is covered by claims Nos.:
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and a second second	
Ink on Protest	The additional search fees were accompanied by the applicant's protest.
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irk on Protest	No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-5,7,9,13

Present claims 1-3 and 13 relate to a product defined by reference to a desirable property, namely an anti-inflammatory activity. The claims cover all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

In addition, present claims 4,5,7,9 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds (pep1) to (pep46) and closely related analogues.

Therefore, claims 6,8,10-12 were searched completely; claims 14-18 only as far as concerning the searched subject-matter.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



It ional Application No PCT/IL 99/00448

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
WO 9500538	A	05-01-1995	AU ZA	6977994 A 9404483 A	17-01-1995 22-12-1995	
JP 3170498	Α	24-07-1991	NONE			

Form PCT/ISA/210 (patient family annex) (July 1992)